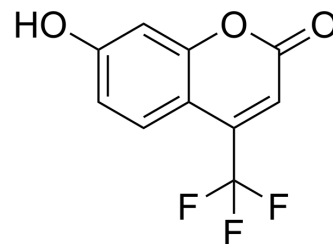


4-(Trifluoromethyl)umbelliferone

Cat. No.:	HY-D0149
CAS No.:	575-03-1
Molecular Formula:	C ₁₀ H ₅ F ₃ O ₃
Molecular Weight:	230.14
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (434.52 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.3452 mL	21.7259 mL	43.4518 mL
	5 mM	0.8690 mL	4.3452 mL	8.6904 mL
	10 mM	0.4345 mL	2.1726 mL	4.3452 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.25 mg/mL (5.43 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 1.25 mg/mL (5.43 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

4-(Trifluoromethyl)umbelliferone is fluorescent probe substrate for rat hepatic cytochrome P450 enzymes^[1].

REFERENCES

[1]. Renwick AB, et, al. Evaluation of 7-benzyloxy-4-trifluoromethylcoumarin, some other 7-hydroxy-4-trifluoromethylcoumarin derivatives and 7-benzyloxyquinoline as fluorescent substrates for rat hepatic cytochrome P450 enzymes. *Xenobiotica*. 2001 Dec;31(12):861-78.

Caution: Product has not been fully validated for medical applications. For research use only.

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